

Commissioner for Patents
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Serial No.: 09/965009
Art Unit: 2142
Examiner: Hollar
Docket No. AUS9 2001 0429 US1

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (currently amended). A method of processing a client request for a file, comprising:

retrieving transmitting a first fragment of the file that is stored in a first tier from volatile storage of a server storage to the client and transmitting the first fragment to the client;

retrieving a subsequent fragment of the file from a lower tier of disk storage of the server while the first fragment is transmitting; and

after transmission of the first fragment completes, transmitting the subsequent fragment to the client.

2-5 (canceled.)

6 (currently amended). The method of claim 1, further comprising, responsive to determining that a the first fragment of the requested file is not valid in the first tier of volatile storage, retrieving the first fragment from a lower tier of the disk storage and storing the first fragment in the first tier volatile storage.

7 (currently amended). The method of claim 6, further comprising determining limiting a size for the first fragment based upon the transmission window of a size and number of active packets permitted by a TCP/IP connection between the server and client.

8 (currently amended). The method of claim 7, wherein the first fragment size is less than or equal to the a maximum number of active packets permitted by the connection multiplied by a maximum packet size permitted by the transmission window of the server connection.

9. (canceled.)

10 (currently amended). A server device for processing a client request for a file, comprising:

a processor;

a system memory accessible to the processor and configured with instructions suitable for execution by the processor;

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server code means for transmitting a first fragment of the file that is stored in ~~a first tier of server~~ volatile storage of the server device to the client;

server code means for retrieving a subsequent fragment of the file from ~~a lower tier disk storage of storage the server device~~ while the first fragment is transmitting; and

server code means for transmitting the subsequent fragment to the client after transmission of the first fragment completes.

11-14 (canceled).

15 (currently amended). The server device of claim 10, further comprising, code means for retrieving the first fragment from ~~a lower tier of storage the disk storage~~ and storing the first fragment in the ~~first tier the volatile storage~~ responsive to determining that a valid copy of the first fragment of the requested file is not valid stored in the ~~first tier of volatile~~ storage.

16 (currently amended). The server device of claim 15, further comprising code means for ~~determining~~ limiting a size for the first fragment based upon ~~the transmission window of a size and number of active packets permitted by a TCP/IP connection~~ between the server and client.

17 (currently amended). The server device of claim 16, wherein the first fragment size is less than or equal to ~~the a maximum number of active packets permitted by the connection multiplied by a maximum packet size permitted by the transmission window of the server connection~~.

18 (canceled).

19 (currently amended). A computer program product residing on a computer readable medium for enabling a server device to process a client requests request for a file, comprising:

server code means for retrieving ~~transmitting~~ a first fragment of the file ~~that is stored in a first tier from volatile storage of a server storage to the client~~ and transmitting the first fragment to the client;

server code means for retrieving a subsequent fragment of the file from ~~a lower tier of disk storage of the server~~ while the first fragment is transmitting; and

server code means for transmitting the subsequent fragment to the client after transmission of the first fragment completes.

20-23 (canceled).

24 (currently amended). The computer program product of claim 19, further comprising, code means for retrieving the first fragment from ~~a lower tier of the disk storage~~ and storing the first

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fragment in the ~~first tier~~ the volatile storage responsive to determining that a valid copy of the first fragment of the requested file is not valid stored in the ~~first tier~~ of storage.

25 (currently amended). The computer program product of claim 24, further comprising code means for ~~determining~~ limiting a size for the first fragment based upon ~~the transmission window of a size and number of active packets permitted by a TCP/IP connection between the server and client.~~

26 (currently amended). The computer program product of claim 25, wherein the first fragment size is less than or equal to ~~the~~ a maximum number of active packets permitted by the connection multiplied by a maximum packet size permitted by the ~~transmission window of the server connection.~~